

FIG. 1

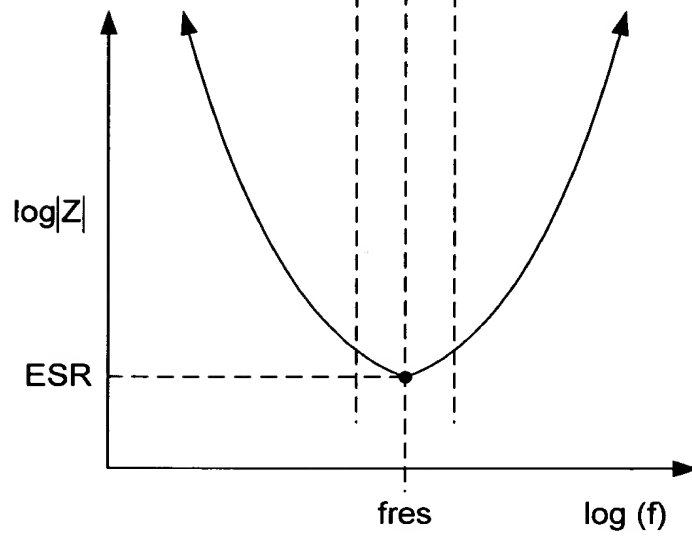


FIG. 2

006730-60000000



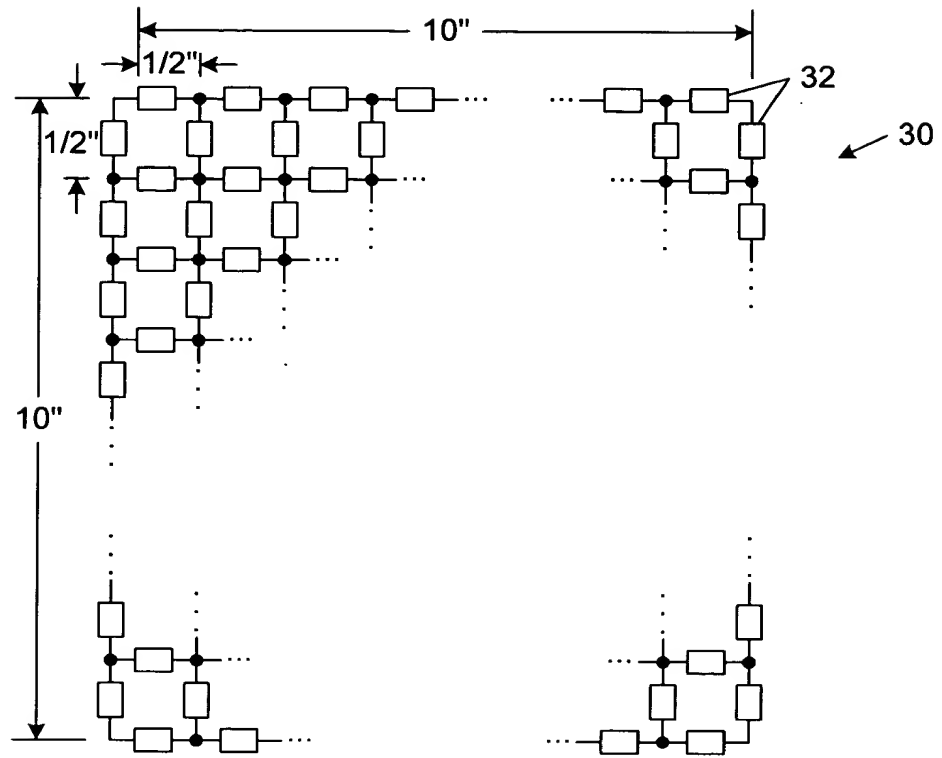


FIG. 5

005790-6393550

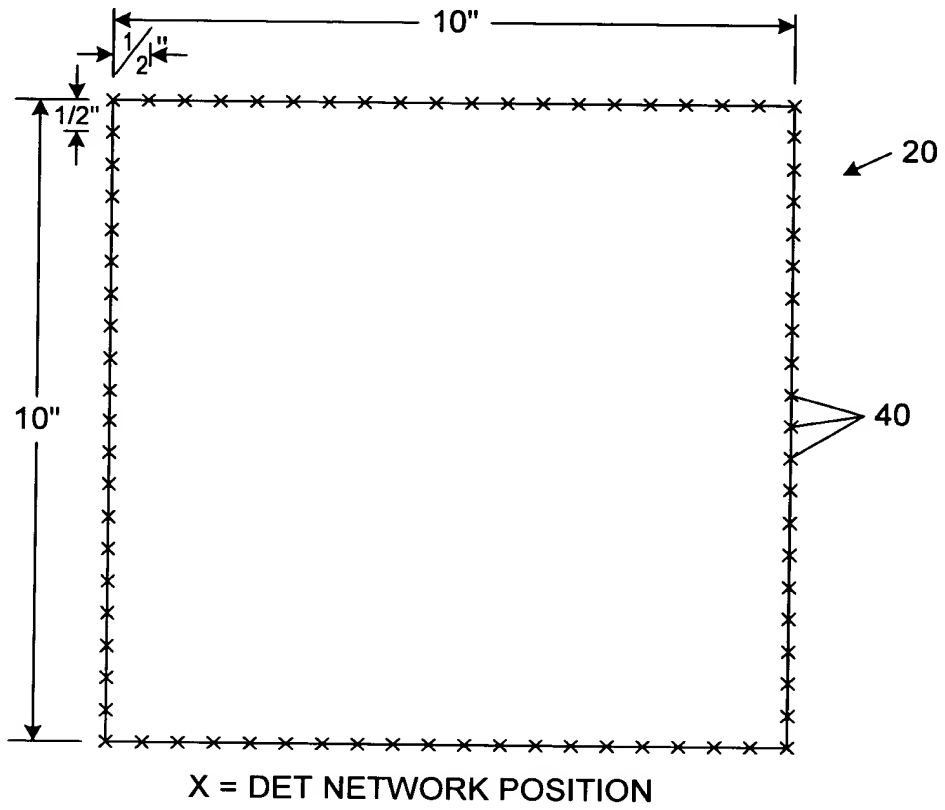


FIG. 6

006T30" 00000000

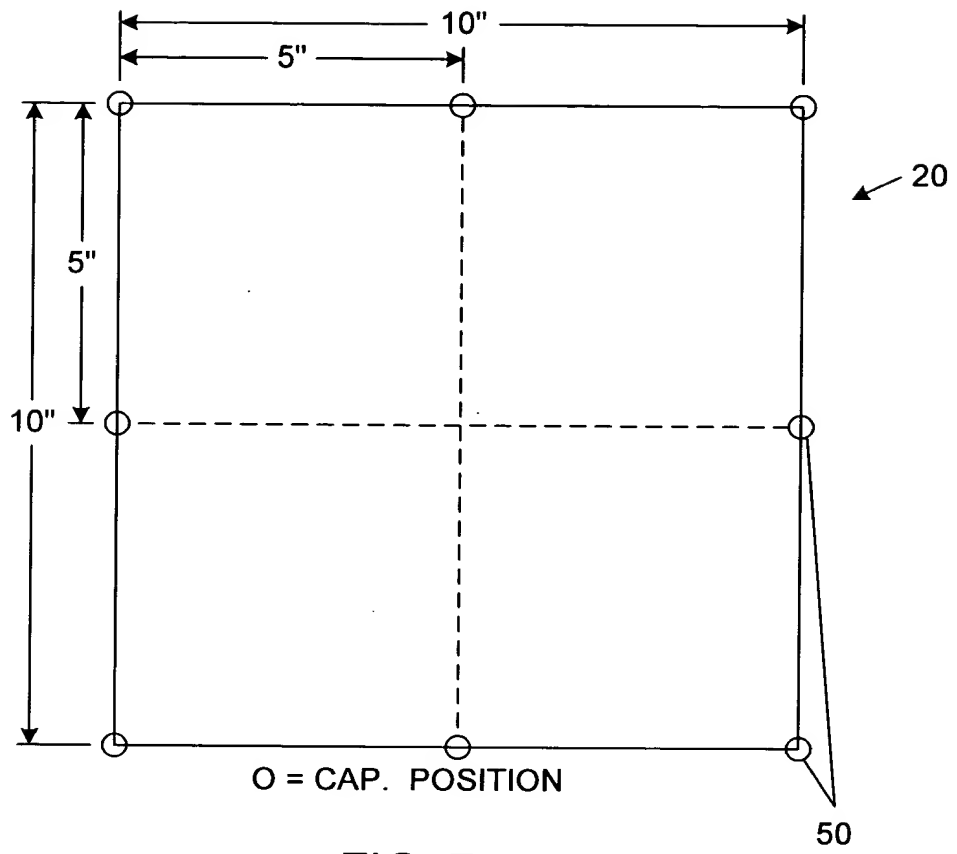


FIG. 7

006T90" E9999560

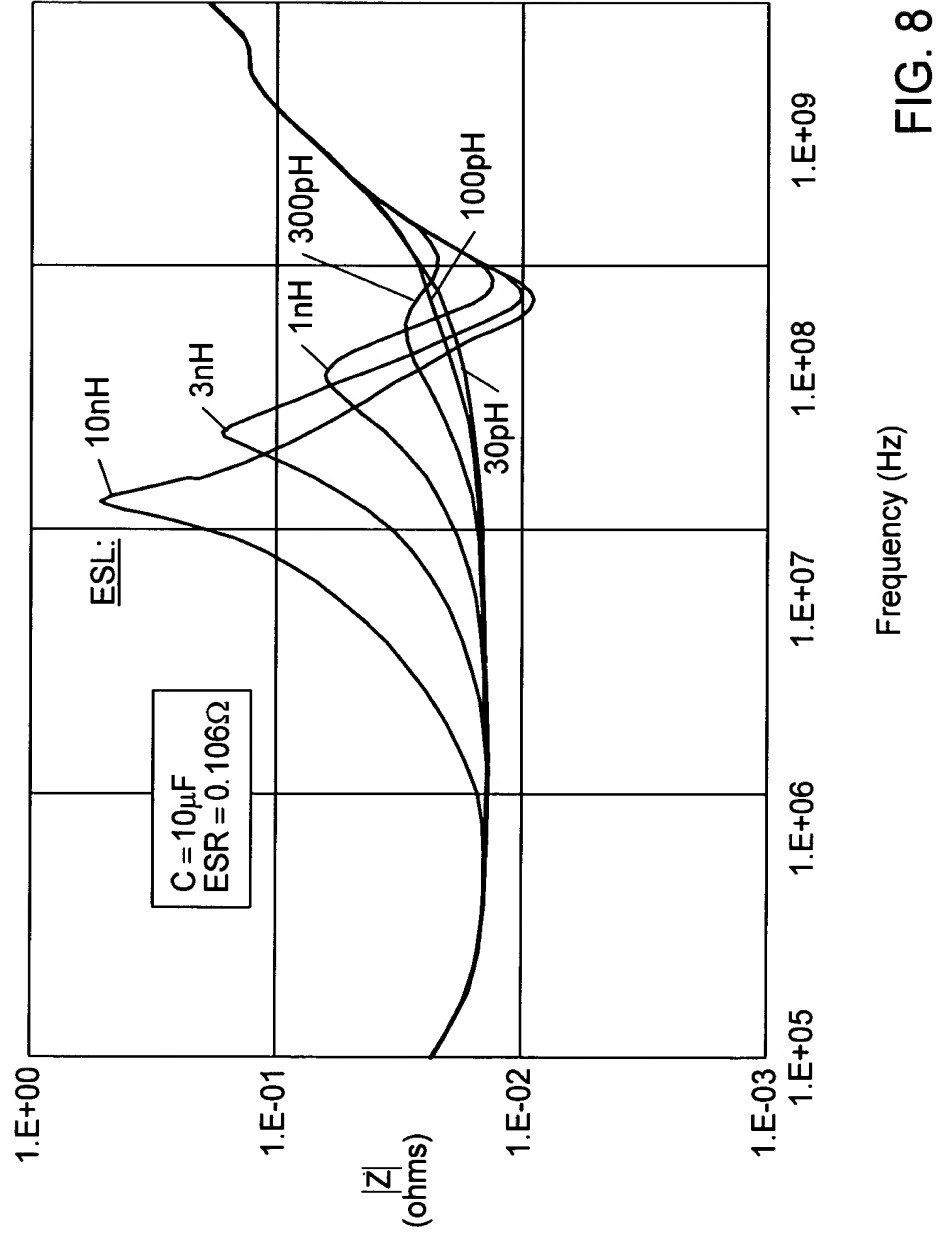


FIG. 8

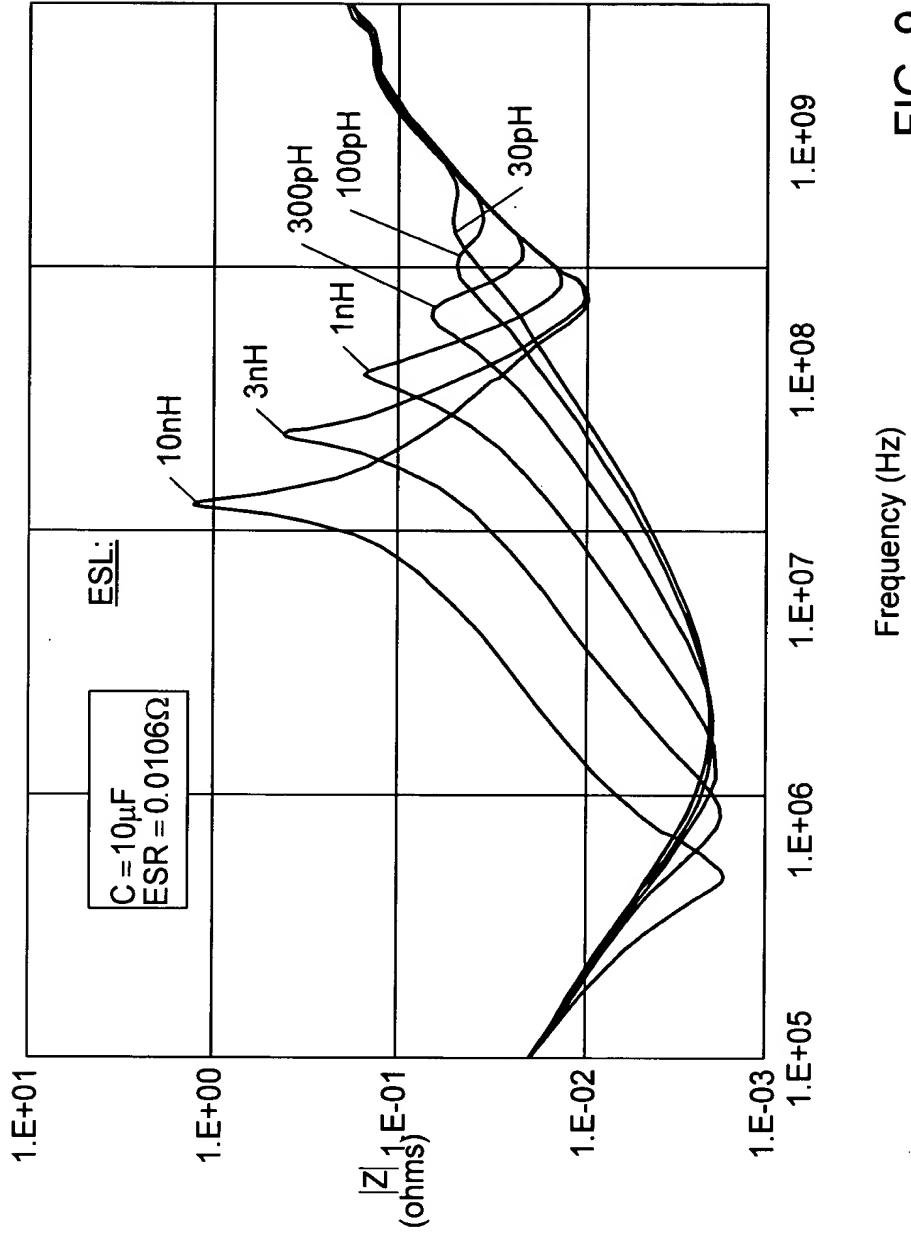


FIG. 9

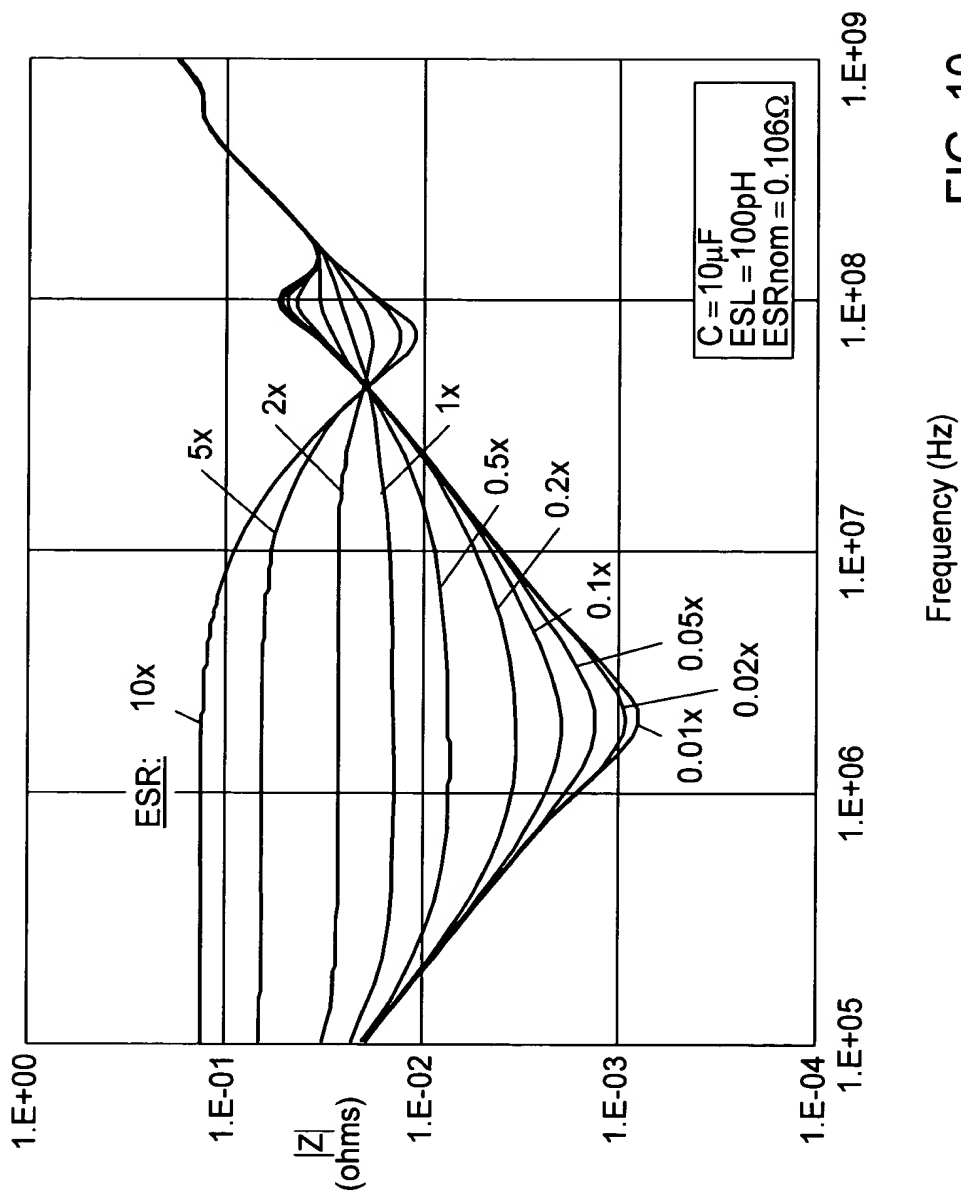


FIG. 10

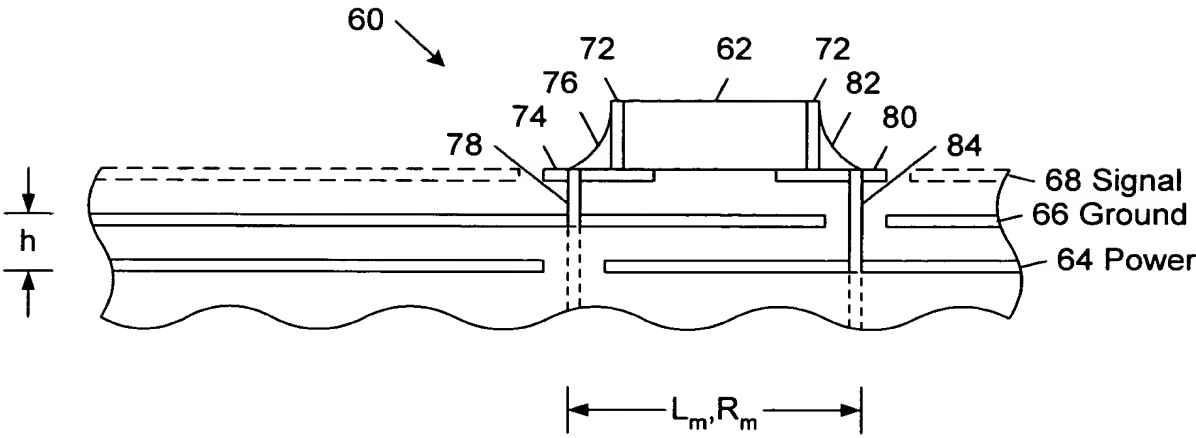


FIG. 11

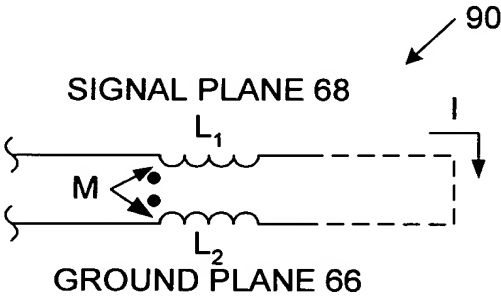


FIG. 12

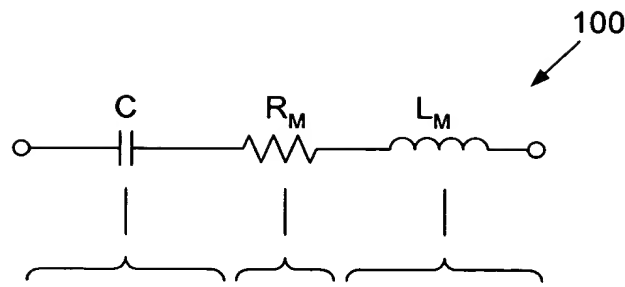


FIG. 13

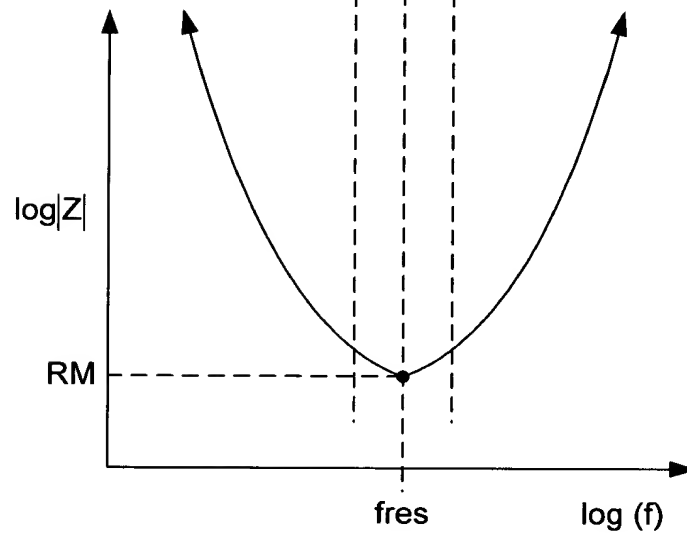


FIG. 14

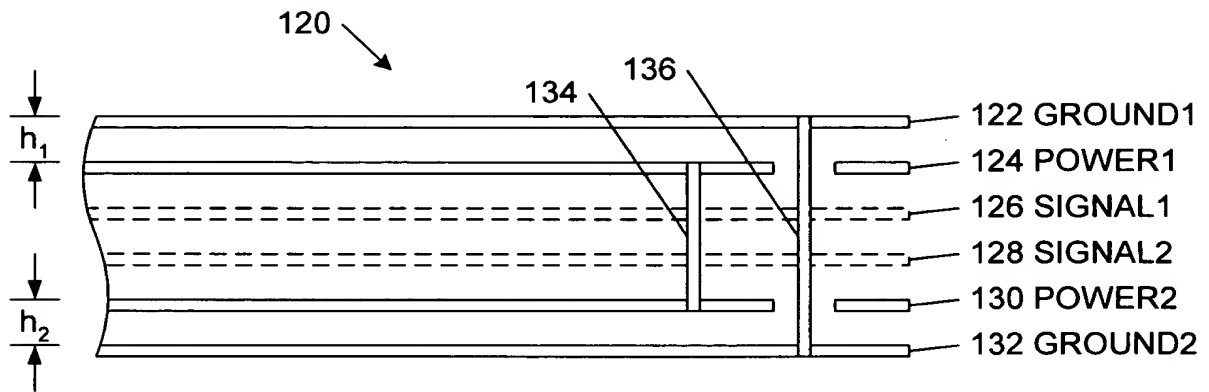


FIG. 17

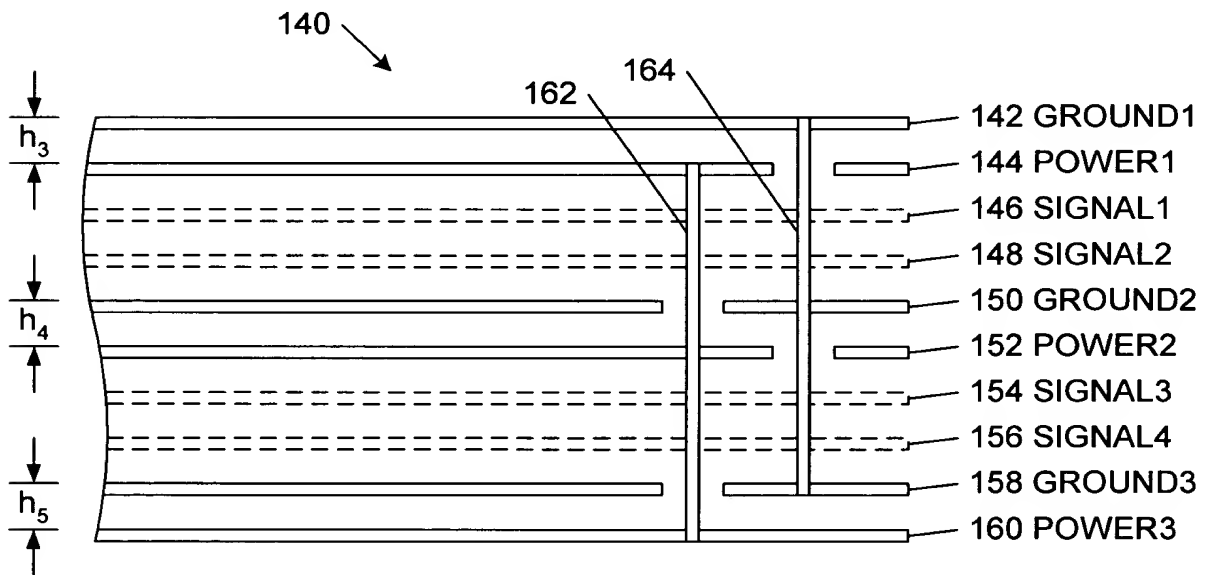


FIG. 18

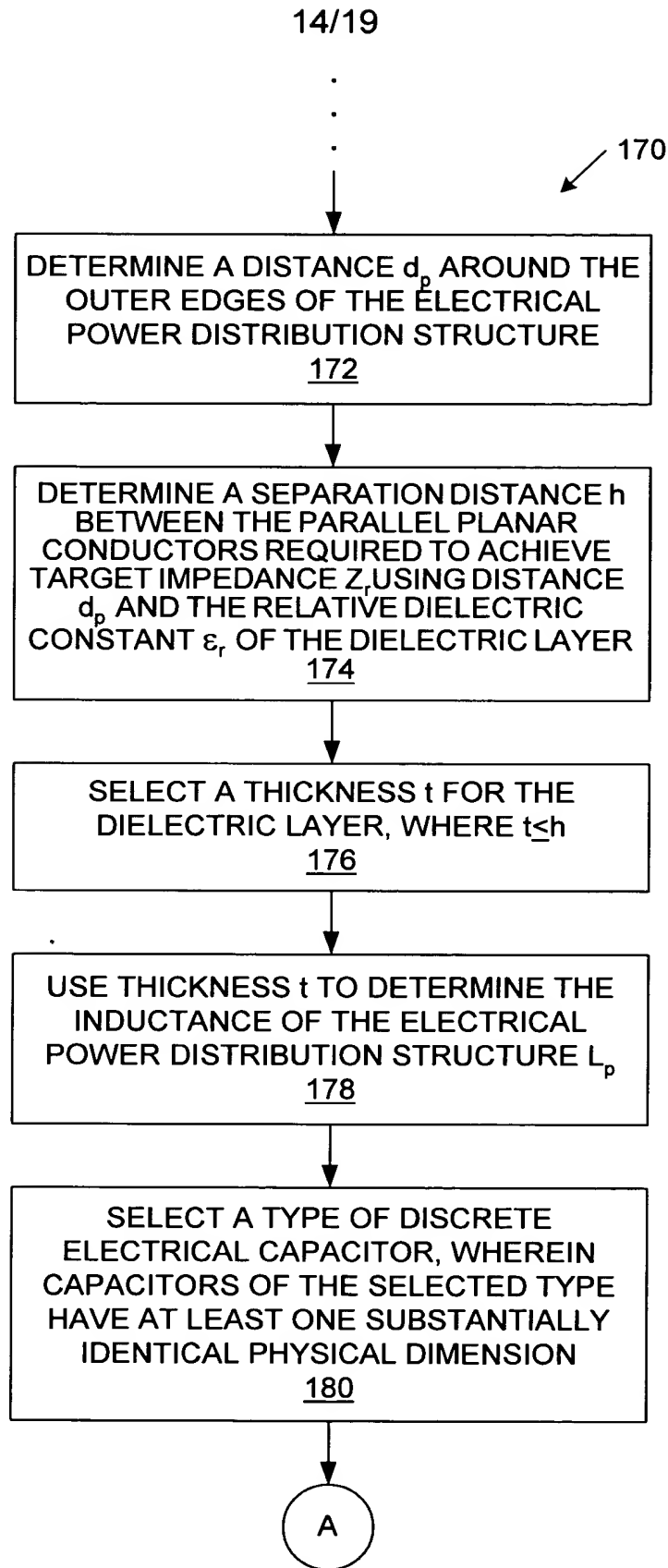


FIG. 19A

B

ELECTRICALLY COUPLE THE n DISCRETE ELECTRICAL CAPACITORS BETWEEN THE PLANAR CONDUCTORS

190

FIG. 19C

200

DETERMINE A DISTANCE d_p AROUND THE OUTER EDGES OF THE ELECTRICAL POWER DISTRIBUTION STRUCTURE

202

DETERMINE A SEPARATION DISTANCE h BETWEEN THE PARALLEL PLANAR CONDUCTORS REQUIRED TO ACHIEVE TARGET ELECTRICAL IMPEDANCE Z_r USING DISTANCE d_p AND THE RELATIVE DIELECTRIC CONSTANT ϵ_r OF THE DIELECTRIC LAYER

204

SELECT A THICKNESS t FOR THE DIELECTRIC LAYER, WHERE $t \leq h$

206

USE THICKNESS t TO DETERMINE THE INDUCTANCE OF THE ELECTRICAL POWER DISTRIBUTION STRUCTURE L_p

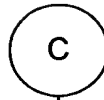
208

SELECT A TYPE OF DISCRETE ELECTRICAL CAPACITOR, WHEREIN CAPACITORS OF THE SELECTED TYPE HAVE AT LEAST ONE SUBSTANTIALLY IDENTICAL PHYSICAL DIMENSION

210

C

FIG. 20A



USE THE AT LEAST ONE SUBSTANTIALLY IDENTICAL PHYSICAL DIMENSION TO DETERMINE A MOUNTED INDUCTANCE L_M OF A REPRESENTATIVE ONE OF THE SELECTED TYPE OF DISCRETE ELECTRICAL CAPACITOR WHEN ELECTRICALLY COUPLED BETWEEN THE PLANAR CONDUCTORS

212

DETERMINE A FIRST REQUIRED NUMBER n_1 OF THE SELECTED TYPE OF DISCRETE ELECTRICAL CAPACITOR DEPENDENT UPON THE INDUCTANCE OF THE ELECTRICAL POWER DISTRIBUTION STRUCTURE L_p AND THE MOUNTED INDUCTANCE L_M OF THE REPRESENTATIVE ONE OF THE SELECTED TYPE OF DISCRETE ELECTRICAL CAPACITOR, WHEREIN $n_1 \geq 2$

214

DETERMINE A SECOND REQUIRED NUMBER n_2 OF THE SELECTED TYPE OF DISCRETE ELECTRICAL CAPACITOR DEPENDENT UPON DISTANCE d_p AND A SPACING DISTANCE S BETWEEN ADJACENT DISCRETE ELECTRICAL CAPACITORS, WHEREIN $n_2 \geq 2$

216

YES

$n_2 \geq n_1?$
218

NO

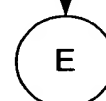
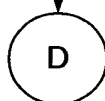


FIG. 20B

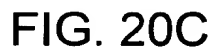


FIG. 20C

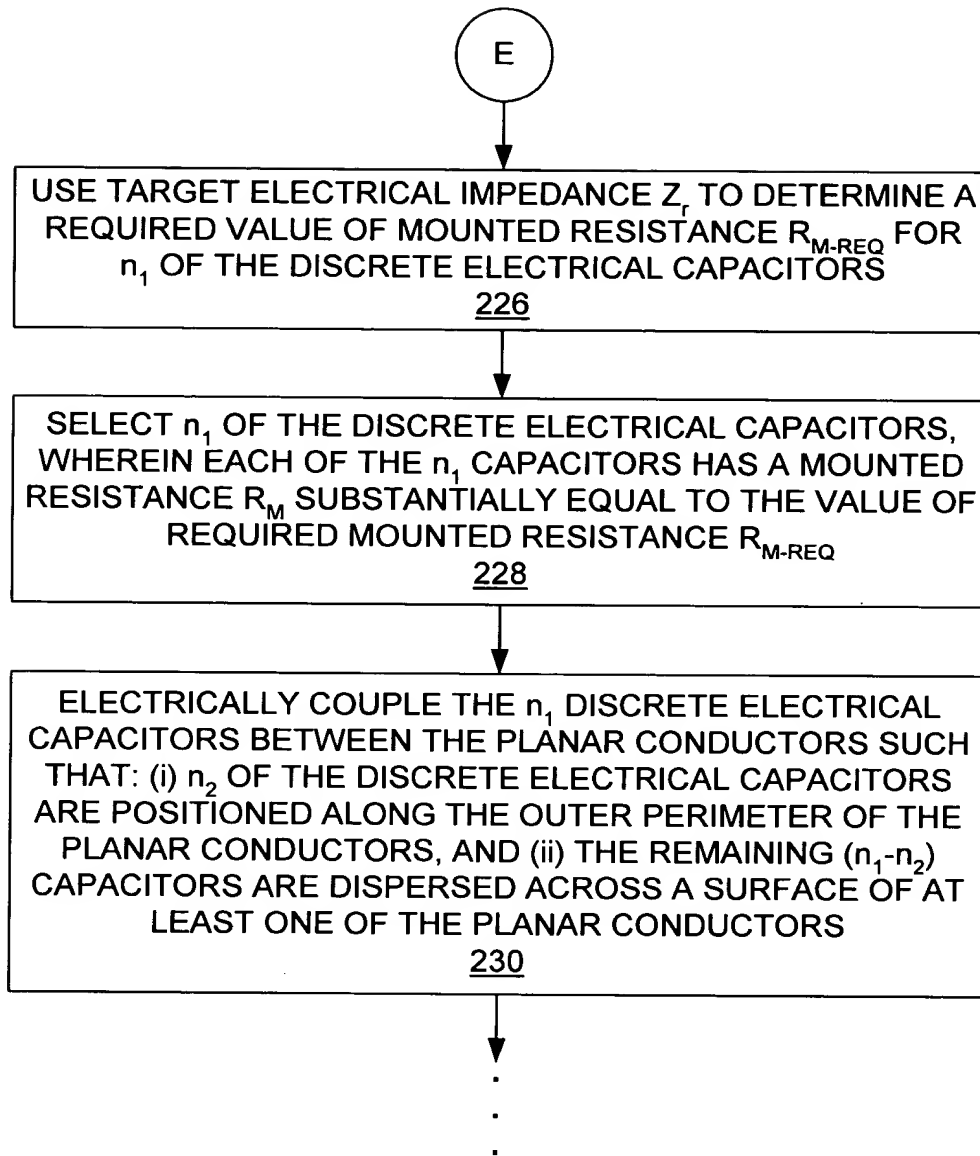


FIG. 20D